

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 July 2005 (14.07.2005)

PCT

(10) International Publication Number
WO 2005/064168 A1

(51) International Patent Classification⁷: **F04D 29/46**

(IT). MANTELLASSI, Stefano [IT/IT]; Via Firenze, 136,
I-51035 Lamporecchio (IT).

(21) International Application Number:
PCT/EP2004/014775

(74) Agents: **COPPO, Alessandro** et al.; Barzano' & Zanardo
Milano S.p.A., Via Borgonuovo, 10, I-20121 Milano (IT).

(22) International Filing Date:
22 December 2004 (22.12.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
MI2003A002608
29 December 2003 (29.12.2003) IT

(71) Applicant (*for all designated States except US*): **NUOVO
PIGNONE HOLDING S.p.A.** [IT/IT]; Via F. Matteucci 2,
I-50127 Firenze (IT).

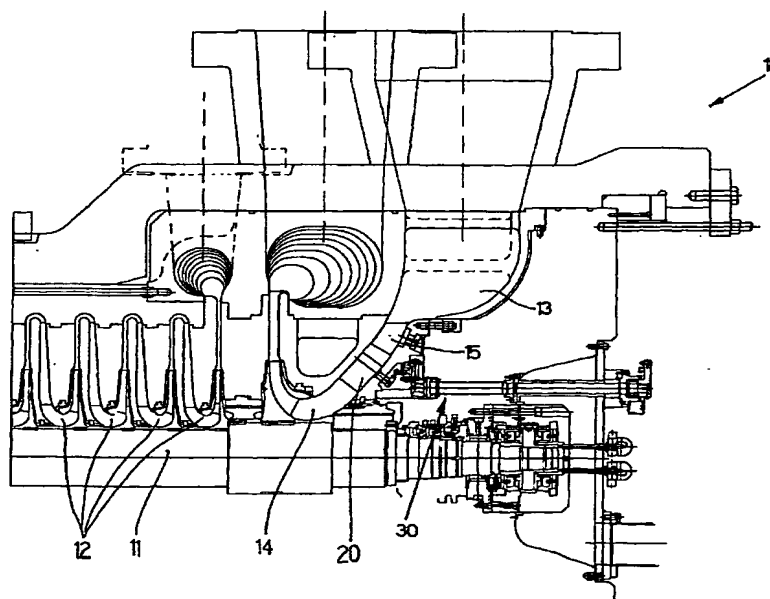
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **TACCONELLI,
Remo** [IT/IT]; Via G. da Verrazzano, 8, I-56025 Pontedera

[Continued on next page]

(54) Title: VANE SYSTEM EQUIPPED WITH A GUIDING MECHANISM FOR CENTRIFUGAL COMPRESSOR



(57) Abstract: A vane system for a centrifugal compressor (10), comprising two rows (15, 20) of vanes (15', 20') installed in series inside a suction duct (14), the first row (15) of fixed vanes (15') being suitable for homogenizing the gas flow that passes through them and sending it to the second row (20) of adjustable vanes (20') equipped with a guiding mechanism comprising a mechanical system (30) suitable for varying the orientation of the vanes (20').

WO 2005/064168 A1



SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(15) Information about Correction:

see PCT Gazette No. 40/2005 of 6 October 2005, Section II

Published:

— *with international search report*

(48) Date of publication of this corrected version:

6 October 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.